

REMARKS

Claims 1-25 are pending in the present application. Claims 1-17 are cancelled above as being drawn to a non-elected invention. Claims 18 and 22-24 are amended above. New claims 26-47 are added above. No new matter is added by the claim amendments or new claims. Entry is respectfully requested.

Applicant notes, with appreciation, that the Office Action indicates at paragraph 8, that claim 25 would be allowable if rewritten in independent form. Accordingly, new claim 32 is submitted above. Entry and allowance of claim 32 are respectfully requested.

Claims 18, 22, and 23 stand rejected under 35 U.S.C. 102(b) as being anticipated by Baker, *et al.* (U.S. 4,919,204 - hereinafter "Baker"). Claims 19 and 20 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Baker. Claim 21 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Baker in view of Poindexter et al. (U.S. 4,116,766). Claim 25 stands rejected under 35 U.S.C. 103(a) as being unpatentable over Baker in view of Smith (U.S. 5,177,901). Reconsideration and removal of these rejections are respectfully requested.

The present invention as claimed in independent claim 18 is directed to a fluid dispensing tip. The tip includes an elongated neck. A bore is machined in the neck along the longitudinal axis of the neck. The bore has a cylindrical input end at an input end of the neck and a cylindrical output end at an output end of the neck. The output end of the bore has an outlet through the output end of the neck. The cylindrical input end of the bore has a first inner diameter and the cylindrical output end of the bore has a second inner diameter, the first inner diameter being greater than the second inner diameter. An inner taper is machined in the bore between the cylindrical input end and the cylindrical output end for transitioning the inner surface of the bore from the first inner diameter to the second inner diameter. The inner taper is proximal to the output end of the neck. Outlet vents are provided in the output end of the neck, the outlet vents extending radially from the outlet.

Baker is directed to a well cleaning apparatus. With reference to FIGs. 1 and 2 of Baker, the well cleaning apparatus 40 includes several components: an adapter 41, an inner mandrel 45, a rotatable housing 50 and a nozzle body 60. A fluid flow path 48 extends through the adapter 41 and inner mandrel 45. Fluid is released through ports 47 into interior of the rotatable housing 50 and nozzle body 60, and is ejected in multiple directions at jet nozzle ports 62, 63, 64. In this manner, fluid emitted by the rotating housing 50 and nozzle 60 assembly cleans the walls of the well as it is raised and lowered by reel 27.

It is submitted that Baker fails to teach or suggest the present invention as claimed. In particular, Baker fails to teach or suggest “the output end of the bore having an outlet through the output end of the neck” and “outlet vents in the output end of the neck, the outlet vents extending radially from the outlet”, as claimed in claim 18. Instead, the Baker jet nozzles 62a, 62b, 63 are formed in the side wall of the Baker nozzle, and therefore are not formed in the “output end”, as claimed. Two of the Baker jet nozzles 64 are formed in the “extreme lower end 55” of the Baker flow path. However, Baker fails to teach or suggest “outlet vents in the output end of the neck, the outlet vents extending radially from the outlet”, as claimed in claim 18. Instead, the Baker jet nozzles 64 pass through to the bottom of the Baker nozzle, and no outlet vents extend radially from the jet nozzles 64.

In addition, Baker fails to teach or suggest “the inner taper being proximal to the output end of the neck”, as claimed in claim 18. Instead, the component of Baker that is referenced in the Office Action as being analogous to the “inner taper” of the present invention, that is, the tapered segment at the lower portion of threads 43 is proximal to the input end of the apparatus, and not the output end.


In view of the above, it is submitted that Baker fails to teach or suggest the present invention as claimed in claim 18. Accordingly, reconsideration of the rejection and allowance of claim 18 are respectfully requested. With regard to the various dependent claims, it follows that these claims should inherit the allowability of the independent claims from which they depend.

Closing Remarks

It is submitted that all claims are in condition for allowance, and such allowance is respectfully requested. If prosecution of the application can be expedited by a telephone conference, the Examiner is invited to call the undersigned at the number given below.

Respectfully submitted,

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